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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/729,279	12/05/2000	/05/2000 Takeshi Yamawaki		6187		
5514 7	7590 05/26/2004		EXAM	EXAMINER		
FITZPATRIC	CK CELLA HARPER	LEE, SUSAN SHUK YIN				
NEW YORK,			ART UNIT	PAPER NUMBER		
•			2852			

DATE MAILED: 05/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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<u> </u>	<u> </u>			Applicati n N .		Applicant(s)		
	Offic	Antion Current		09/729,27	9	YAMAWAKI ET A	L.	
	Unic	Action Summary		Examiner		Art Unit		
				Susan S. L		2852		
Peri d fo		LING DATE of this communic	cation app	ears on the	cover sheet with the co	orresp ndence ad	dress	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)🖂	Responsiv	ve to communication(s) filed	d on <u>10 M</u>	<u>arch 2004</u> .				
2a)⊠	This action	n is FINAL . 21	b) This	action is no	on-final.			
3)□		application is in condition for		-	•		merits is	
	closed in a	accordance with the practice	e under <i>E</i>	x parte Qua	ayle, 1935 C.D. 11, 45	3 O.G. 213.		
Dispositi	ion of Clai	ms						
4)⊠	Claim(s) 1	1-16 and 18-45 is/are pendir	ng in the a	application.				
•	4a) Of the	above claim(s) is/are	e withdraw	vn from cor	sideration.			
·	–	<u>1-16</u> is/are allowed.						
·		18,19,21,22,24,25,29-32,34,						
·		20, 23, 26-28, 33, 36, 39-41,		_				
8)	Claim(s)_	are subject to restricti	ion and/or	election re	quirement.			
Applicati	ion Papers	;						
9) 🗌 :	The specif	ication is objected to by the	Examiner	r.				
10)[The drawir	ng(s) filed on is/are:	a) acce	epted or b)[\beth objected to by the E	xaminer.		
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)[The oath o	or declaration is objected to	by the Exa	aminer. No	te the attached Office	Action or form PT	O-152.	
Priority u	ınder 35 U	J.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment	t(s)							
		ces Cited (PTO-892)			4) Interview Summary (
3) Inform	-	rson's Patent Drawing Review (PT sure Statement(s) (PTO-1449 or P Date	•		Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:)-152)	

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 18, 19, 21, 22, 24, 25, 29/18, 29/19, 29/21, 29/22, 29/24, 29/25, 30/18, 30/19, 30/21, 30/22, 30/24, 30/25, 31, 32, 34, 35, 37, 38, 42/31, 42/32, 42/34, 42/35, 42/37, 42/38, 43/31, 43/32, 43/34, 43/35, 43/37, and 43/38 rejected under 35 U.S.C. 103(a) as being unpatentable over Herloski et al. (4,355,859) in view of Toyoda (Japan, 759).

Herloski et al. discloses a raster scanner used to write images on a photoconductive surface 12 of a photoconductor in a xerographic apparatus for subsequent development and transfer to a copy substrate material, and the transferred image thereafter fixed to form a permanent copy. A laser assembly from the raster scanner can be pivoted so as to align with the axis of the laser beam 25 with the optical axis of the scanner. The laser assembly shows that it has lens 67 that reads on the instant invention's optical element. Mirror 24, mirror 30, mirror 33, and lens 45 read on the instant invention's incident optical system. Scanner 10 reads on the instant invention's optical deflector. Lens 45, mirror 33, mirror 30, mirror 47, and slot-like aperture 49 read on the instant invention's imaging optical system. Note abstract,

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column 2, line 58- column 4, line 36. The shifting direction is shown with arrows in Fig. 3 which reads on the predetermined direction with respect to the optical axis of the incident optical system. The light beam emerging from the incident optical system is obliquely incident on the deflecting surface of the scanner or optical deflector 10 in a main scanning cross-section (see Fig. 3). A controller for converting code data input from an external device into an image signal, and inputting the signal to the optical scanning apparatus is an inherent feature in Herloski et al. because it is mentioned that in a case where a scanner serves to produce or write images, a modulator is disposed astride the beam path to vary intensity of the beam in accordance with video image signals input thereto. Note column 1, lines 9-20.

Herloski et al. differs from the instant invention by not disclosing an incident optical system arranged to direct light beam from the laser unit to strike an optical deflector maintaining a width of the light beam wider than a width of a deflecting surface of the optical deflector in a main scanning direction.

Toyoda discloses a light scanning optical device where a width of a luminous flux emitted from the lens 2 is formed so as to become wider than the width of deflection surface 4a of polygon mirror or optical deflector 4. This is done so that changes in the width of the luminous flux in accordance to the revolution of the optical deflector 4 can be minimized. Note abstract.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the apparatus of Herloski et al. with that of Toyoda so

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that changes of width of laser beam caused by the revolution of the optical deflector can be minimized as disclosed by Toyoda.

Allowable Subject Matter

Claims 20, 23, 26-28, 29/20, 29/23, 29/26, 29/27, 29/28, 30/20, 30/23, 30/26, 30/27, 30/28, 33, 36, 39-41, 42/33, 42/36, 42/39, 42/40, 42/41, 43/33, 43/36, 43/39, 43/40, 43/41, 44, and 45 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 1-16 are allowed over the prior art of record.

Response to Arguments

Applicant's arguments filed 3/10/04 have been fully considered but they are not persuasive. Applicant argues that the reference to Herloski do not teach or suggest that "the laser unit is adapted to be shifted in a predetermined direction", page 15, lines 11-13 of the remarks. Examiner disagrees with this. The Webster's Dictionary defines "shift" as "to change the place, position, or direction of". First, the arrow as shown in Fig. 3 shows a movement of the laser. When the movement of the laser is to one extreme end to the other extreme end of the arrow, the direction of where the laser beam from the laser is thus changed in "direction of" the previous position of the laser beam of located on the one extreme end. Thus, in conclusion, Herloski discloses such features such as "the laser unit is adapted to be shifted in a predetermined direction".

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Naiki (Japan, 012) disclose art in shift adjusting of a light source unit.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan S. Lee whose telephone number is 571-272-2137. The examiner can normally be reached on Mon. - Fri., 10:30-8:00, Second Monday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Art Grimley can be reached on 571-272-2136 or 571-272-2800 (Ext. 52). The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Susan S. Lee Primary Examiner

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